



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0652.2260001/EKS/AESAPPLICATION NO.  
09/881,736APPLICANT  
GLOTZER et al.FILING DATE  
June 18, 2001GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLi	AR	1	Adams, R.R. et al., "pavarotti encodes a kinesin-like protein required to organize the central spindle and contractile ring for cytokinesis," <i>Genes Dev.</i> 12:1483-1494, Cold Spring Harbor Laboratory Press (1998).
RLi	AS	1	Aktories, K. and Hall, A., "Botulinum ADP-ribosyltransferase C: a new tool to study low molecular weight GTP-binding proteins," <i>Trends Pharmacol. Sci.</i> 10:415-418, Elsevier Science Publishers Ltd. (1989).
RLi	AT	1	Bosher, J.M. and Labouesse, M., "RNA interference: genetic wand and genetic watchdog," <i>Nat. Cell Biol.</i> 2:E31-E36, Macmillan Publishers, Ltd. (February 2000).

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Ruining L.

DATE CONSIDERED

6/2/2004

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RLi	AR	2	Boulianne, G.L. et al., "Production of functional chimaeric mouse/human antibody," <i>Nature</i> 312:643-646, Macmillan Publishing Group, Ltd. (1984).
RLi	AS	2	Busson, S. et al., "Dynein and dynactin are localized to astral microtubules and at cortical sites in mitotic epithelial cells," <i>Curr. Biol.</i> 8:541-544, Current Biology Ltd. (1998).
RLi	AT	2	Cao, L.-g. and Wang, Y.-l., "Signals from the Spindle Midzone Are Required for the Stimulation of Cytokinesis in Cultured Epithelial Cells," <i>Mol. Biol. Cell</i> 7:225-232, The American Society for Cell Biology (1996).

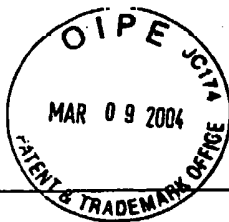
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Renzing L.

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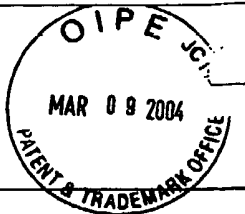
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RLi	AR	3	Carmena, M. et al., "Drosophila Polo Kinase Is Required for Cytokinesis," J. Cell Biol. 143:659-671, The Rockefeller University Press (1998).
RLi	AS	3	Carminati, J.L. and Stearns, T., "Microtubules Orient the Mitotic Spindle in Yeast through Dynein-dependent Interactions with the Cell Cortex," J. Cell Biol. 138:629-641, The Rockefeller University Press (1997).
RLi	AT	3	Case, R.B. et al., "Role of the kinesin neck linker and catalytic core in microtubule-based motility," Curr. Biol. 10:157-160, Elsevier Science Ltd. (January 2000).

EXAMINER <i>Ruiyang L</i>	DATE CONSIDERED 6/2/2004
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RLi	AR	4	Castrillon, D.H. and Wasserman, S.A., "diaphanous is required for cytokinesis in <i>Drosophila</i> and shares domains of similarity with the products of the <i>limb deformity</i> gene," <i>Development</i> 120:3367-3377, The Company of Biologists Limited (1994).
RLi	AS	4	Chang, F. <i>et al.</i> , "cdc12p, a Protein Required for Cytokinesis in Fission Yeast, Is a Component of the Cell Division Ring and Interacts with Profilin," <i>J. Cell Biol.</i> 137:169-182, The Rockefeller University Press (1997).
RLi	AT	4	Chui, K.K. <i>et al.</i> , "Roles of Two Homotetrameric Kinesins in Sea Urchin Embryonic Cell Division," <i>J. Biol. Chem.</i> 275:38005-38011, The American Society for Biochemistry and Molecular Biology, Inc. (December 2000).

EXAMINER <i>Ruihang Li</i>	DATE CONSIDERED 6/2/2004
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RLi	AR	5	Drechsel, D.N. et al., "A requirement for Rho and Cdc42 during cytokinesis in <i>Xenopus</i> embryos," <i>Curr. Biol.</i> 7:12-23, Current Biology Ltd. (1996).
RLi	AS	5	Dutartre, H. et al., "Cytokinesis arrest and redistribution of actin-cytoskeleton regulatory components in cells expressing the Rho GTPase CDC42Hs," <i>J. Cell Sci.</i> 109:367-377, The Company of Biologists Limited (1996).
RLi	AT	5	Echard, A. et al., "Interaction of a Golgi-Associated Kinesin-Like Protein with Rab6," <i>Science</i> 279:580-585, The American Association for the Advancement of Science (1998).

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*Ramirez L*

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RLi	AR	6	Eckley, D.M. <i>et al.</i> , "Chromosomal Proteins and Cytokinesis: Patterns of Cleavage Furrow Formation and Inner Centromere Protein Positioning in Mitotic Heterokaryons and Mid-anaphase Cells," <i>J. Cell Biol.</i> 136:1169-1183, The Rockefeller University Press (1997).
RLi	AS	6	Evangelista, M. <i>et al.</i> , "Bnlp, a Yeast Formin Linking Cdc42p and the Actin Cytoskeleton During Polarized Morphogenesis," <i>Science</i> 276:118-122, The American Association for Advancement of Science (1997).
RLi	AT	6	Field, C. <i>et al.</i> , "Cytokinesis in eukaryotes: a mechanistic comparison," <i>Curr. Opin. Cell Biol.</i> 11:68-80, Elsevier Science Ltd. (February 1999).

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Ruizhang L.

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RLi	AR	1	Fire, A. et al., "Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Nature</i> 391:806-811, Macmillan Publishers, Ltd. (1998).
RLi	AS	1	Fire, A., "RNA-triggered gene silencing," <i>Trends Genet.</i> 15:358-363, Elsevier Science Ltd. (September 1999).
RLi	AT	1	Fontijn, R.D. et al., "The Human Kinesin-Like Protein RB6K Is under Tight Cell Cycle Control and Is Essential for Cytokinesis," <i>Mol. Cell. Biol.</i> 21:2944-2955, American Society for Microbiology (April 2001).

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*Rushiaig L*

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RLi	AR	8	Fujiwara, T. et al., "Bnip1 Regulates Microtubule-Dependent Nuclear Migration through the Actin Cytoskeleton in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 19:8016-8027, American Society for Microbiology (December 1999).
RLi	AS	8	Gentz, R. et al., "Bioassay for trans-activation using purified human immunodeficiency virus tat-encoded protein: Trans-activation requires mRNA synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 86:821-824, The National Academy of Sciences (1989).
RLi	AT	8	Giansanti, M.G. et al., "Cooperative interactions between the central spindle and the contractile ring during <i>Drosophila</i> cytokinesis," <i>Genes Dev.</i> 12:396-410, Cold Spring Harbor Laboratory Press (1998).

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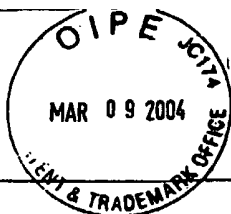
*Rudolf L*

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RLi	AR	2	Glutzer, M., "Cytokinesis," Curr. Biol. 7:R274-R276, Current Biology Ltd. (1997).
RLi	AS	2	Glutzer, M., "The mechanism and control of cytokinesis," Curr. Opin. Cell Biol. 9:815-823, Current Opinion Ltd. (1997).
RLi	AT	2	Gönczy, P. et al., "Dissection of Cell Division Processes in the One Cell Stage Caenorhabditis elegans Embryo by Mutational Analysis," J. Cell Biol. 144:927-946, The Rockefeller University Press (March 1999).

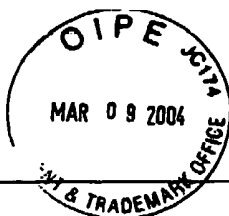
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Runxiang Lu

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RLi	AR	10	Gönczy, P. et al., "Cytoplasmic Dynein is Required for Distinct Aspects of MTOC Positioning, Including Centrosome Separation, in the One Cell Stage <i>Caenorhabditis elegans</i> Embryo," <i>J. Cell Biol.</i> 147:135-150, The Rockefeller University Press (October 1999).
RLi	AS	10	Graziano, R.F. et al. "Construction and Characterization of a Humanized Anti- $\gamma$ -Ig Receptor Type I (Fc $\gamma$ RI) Monoclonal Antibody," <i>J. Immunol.</i> 155:4996-5002, The American Association of Immunologists (1995).
RLi	AT	10	Hazlett, T.L. et al., "Solution Dynamics of p21 <sup>ras</sup> Proteins Bound with Fluorescent Nucleotides: A Time-Resolved Fluorescence Study," <i>Biochemistry</i> 32:13575-13583, American Chemical Society (1993).

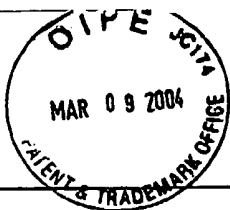
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Ruixiang L

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RLi	AR	11	Hill, E. et al., "The Rab6-binding kinesin, Rab6-KIFL, is required for cytokinesis," <i>EMBO J.</i> 19:5711-5719, European Molecular Biology Organization (November 2000).
RLi	AS	11	Hirose, K. et al., "MgcRacGAP Is Involved in Cytokinesis through Associating with Mitotic Spindle and Midbody," <i>J. Biol. Chem.</i> 276:5821-5828, The American Society for Biochemistry and Molecular Biology, Inc. (February 2001).
RLi	AT	11	Hurley, J.H. and Meyer, T., "Subcellular targeting by membrane lipids," <i>Curr. Opin. Cell Biol.</i> 13:146-152, Elsevier Science Ltd. (April 2001).

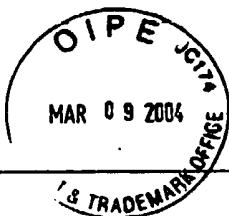
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RLi	AR	12	Hyman, A.A., "Centrosome Movement in the Early Divisions of <i>Caenorhabditis elegans</i> : A Cortical Site Determining Centrosome Position," <i>J. Cell Biol.</i> 109:1185-1193, The Rockefeller University Press (1989).
RLi	AS	12	Hyman, A.A. and White, J.G., "Determination of Cell Division Axes in the Early Embryogenesis of <i>Caenorhabditis elegans</i> ," <i>J. Cell Biol.</i> 105:2123-2135, The Rockefeller University Press (1987).
RLi	AT	12	Imamura, H. et al., "Bnlp and Bnrlp: downstream targets of the Rho family small G-proteins which interact with profilin and regulate actin cytoskeleton in <i>Saccharomyces cerevisiae</i> ," <i>EMBO J.</i> 16:2745-2755, Oxford University Press (1997).

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RLi	AR	13	Jantsch-Plunger, V. and Glotzer, M., "Depletion of syntaxins in the early <i>Caenorhabditis elegans</i> embryo reveals a role for membrane fusion events in cytokinesis," <i>Curr. Biol.</i> 9:738-745, Current Biology Ltd. (June 1999).
RLi	AS	13	Jantsch-Plunger, V. et al., "CYK-4: A Rho Family GTPase Activating Protein (GAP) Required for Central Spindle Formation and Cytokinesis," <i>J. Cell Biol.</i> 149:1391-1404, The Rockefeller University Press (June 2000).
RLi	AT	13	Kaitna, S. et al., "Incenp and an Aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis," <i>Curr. Biol.</i> 10:1172-1181, Elsevier Science Ltd. (September 2000).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

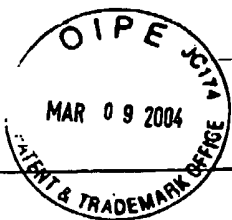
RLi	AR	14	Kishi, K. et al., "Regulation of Cytoplasmic Division of <i>Xenopus</i> Embryo by rho p21 and Its Inhibitory GDP/GTP Exchange Protein ( <i>rho</i> GDI)," <i>J. Cell Biol.</i> 120:1187-1195, The Rockefeller University Press (1993).				
RLi	AS	14	Kosako, H. et al., "Specific accumulation of Rho-associated kinase at the cleavage furrow during cytokinesis: cleavage furrow-specific phosphorylation of intermediate filaments," <i>Oncogene</i> 18:2783-2788, Stockton Press (April 1999).				
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RLi	AR	15	Kuriyama, R. et al., "Heterogeneity and microtubule interaction of the CHO1 antigen, a mitosis-specific kinesin-like protein. Analysis of subdomains expressed in insect sf9 cells," J. Cell Sci. 107:3485-3499, The Company of Biologists Limited (1994).
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RLi	AR	16	Lee, K.S. et al., "Plk Is an M-Phase-Specific Protein Kinase and Interacts with a Kinesin-Like Protein, CHO1/MKLP-1," Mol. Cell. Biol. 15:7143-7151, American Society for Microbiology (1995).
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RLi	AR	17	Mackay, A.M. et al., "A Dominant Mutant of Inner Centromere Protein (INCENP), a Chromosomal Protein, Disrupts Prometaphase Congression and Cytokinesis," <i>J. Cell Biol.</i> 140:991-1002, The Rockefeller University Press (1998).
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RLi	AR	18	Mello, C.C. et al., "Efficient gene transfer in <i>C.elegans</i> : extrachromosomal maintenance and integration of transforming sequences," <i>EMBO J.</i> 10:3959-3970, Oxford University Press (1991).
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RLi	AS	19	Nislow, C. <i>et al.</i> , "A plus-end-directed motor enzyme that moves antiparallel microtubules <i>in vitro</i> localizes to the interzone of mitotic spindles," <i>Nature</i> 359:543-547, Macmillan Publishers Ltd. (1992).
RLi	AT	19	O'Connell, K.F. <i>et al.</i> , "A Genetic Screen for Temperature-Sensitive Cell-Division Mutants of <i>Caenorhabditis elegans</i> ," <i>Genetics</i> 149:1303-1321 (1998).

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RLi	AR	20	O'Connell, C.B. et al., "The Small GTP-binding Protein Rho Regulates Cortical Activities in Cultured Cells during Division," <i>J. Cell Biol.</i> 144:305-313, The Rockefeller University Press (January 1999).
RLi	AS	20	Okada, Y. and Hirokawa, N., "Mechanism of the single-headed processivity: Diffusional anchoring between the K-loop of kinesin and the C terminus of tubulin," <i>Proc. Natl. Acad. Sci. USA</i> 97:640-645, The National Academy of Sciences (January 2000).
RLi	AT	20	Powers, J. et al., "A nematode kinesin required for cleavage furrow advancement," <i>Curr. Biol.</i> 8:1133-1136, Current Biology Ltd. (1998).

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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLi	AR	21	Prokopenko, S.N. et al., "A putative exchange factor for Rho1 GTPase is required for initiation of cytokinesis in <i>Drosophila</i> ," <i>Genes Dev.</i> 13:2301-2314, Cold Spring Harbor Laboratory Press (September 1999).
RLi	AS	21	Raich, W.B. et al., "Cytokinesis and Midzone Microtubule Organization in <i>Caenorhabditis elegans</i> Require the Kinesin-like Protein ZEN-4," <i>Mol. Biol. Cell</i> 9:2037-2049, The American Society for Cell Biology (1998).
RLi	AT	21	Rappaport, R., "Repeated Furrow Formation From a Single Mitotic Apparatus in Cylindrical Sand Dollar Eggs," <i>J. Exp. Zool.</i> 234:167-171, Alan R. Liss, Inc. (1985).

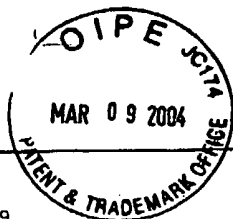
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Ruizhang L

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLi	AR	22	Reddien, P. and Horvitz, H.R., "CED-2/CrkII and CED-10/Rac control phagocytosis and cell migration in <i>Caenorhabditis elegans</i> ," <i>Nat. Cell Biol.</i> 2:131-136, Macmillan Publishers Inc. (March 2000).
RLi	AS	22	Rice, S. et al., "A structural change in the kinesin motor protein that drives motility," <i>Nature</i> 402:778-784, Macmillan Publishers Inc. (December 1999).
RLi	AT	22	Riechmann, L. et al., "Reshaping human antibodies for therapy," <i>Nature</i> 332:323-327, Macmillan Publishers Inc. (1988).

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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLj	AR	23	Rieder, C.L. et al., "Mitosis in vertebrate somatic cells with two spindles: Implications for the metaphase/anaphase transition checkpoint and cleavage," <i>Proc. Natl. Acad. Sci. USA</i> 94:5107-5112, The National Academy of Sciences (1997).
RLj	AS	23	Sablin, E.P. et al., "Crystal structure of the motor domain of the kinesin-related motor ncd," <i>Nature</i> 380:555-559, Macmillan Publishers Inc. (1996).
RLj	AT	23	Savoian, M.S. et al., "Cleavage Furrows Formed between Centrosomes Lacking an Intervening Spindle and Chromosomes Contain Microtubule Bundles, INCENP, and CHOI but Not CENP-E," <i>Mol. Biol. Cell</i> 10:297-311, The American Society for Cell Biology (February 1999).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLi	AR	24	Saxton, W.M. and McIntosh, J.R., "Interzone Microtubule Behavior in Late Anaphase and Telophase Spindles," <i>J. Cell Biol.</i> 105:875-886, The Rockefeller University Press (1987).
RLi	AS	24	Schumacher, J.M. et al., "AIR-2: An Aurora/Ipl1-related Protein Kinase Associated with Chromosomes and Midbody Microtubules Is Required for Polar Body Extrusion and Cytokinesis in <i>Caenorhabditis elegans</i> Embryos," <i>J. Cell Biol.</i> 143:1635-1646, The Rockefeller University Press (1998).
RLi	AT	24	Settleman, J. and Foster, R., "Purification and GTPase-Activating Protein Activity of Baculovirus Expressed p190," <i>Methods Enzymol.</i> 256:105-113, Academic Press, Inc. (1995).

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RLj	AR	25	Severson, A.F. <i>et al.</i> , "The Aurora-related kinase AIR-2 recruits ZEN-4/CemKLP1 to the mitotic spindle at metaphase and is required for cytokinesis," <i>Curr. Biol.</i> 10:1162-1171, Current Biology Ltd. (September 2000).
RLj	AS	25	Sharp, D.J. <i>et al.</i> , "Expression of a Kinesin-Related Motor Protein Induces Sf9 Cells to Form Dendrite-Like Processes with Nonuniform Microtubule Polarity Orientation," <i>J. Neurosci.</i> 16:4370-4375, Society for Neuroscience (1996).
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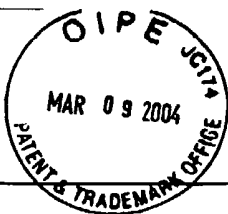
RLi	AR	26	Skop, A.R. and White, J.G., "The dynactin complex is required for cleavage plane specification in early <i>Caenorhabditis elegans</i> embryos," <i>Curr. Biol.</i> 8:1110-1116, Current Biology Ltd. (1998).
RLi	AS	26	Sugihara, K. et al., "Rac1 is required for the formation of three germ layers during gastrulation," <i>Oncogene</i> 17:3427-3433, Stockton Press (1998).
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RLi	AR	27	Swan, K.A. <i>et al.</i> , "cyk-1: a <i>C. elegans</i> FH gene required for a late step in embryonic cytokinesis," <i>J. Cell Sci.</i> 111:2017-2027, The Company of Biologists Ltd. (1998).
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.2260001/EKS/AES	APPLICATION NO. 09/881,736
	APPLICANT GLOTZER et al.	
	FILING DATE June 18, 2001	GROUP 1653 1646

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RLi	AR	28	Touré, A. et al., "MgcRacGAP, A New Human GTPase-activating Protein for Rac and Cdc42 Similar to <i>Drosophila rotundRacGAP</i> Gene Product, Is Expressed in Male Germ Cells," <i>J. Biol. Chem.</i> 273:6019-6023, The American Society for Biochemistry and Molecular Biology, Inc. (1998).
RLi	AS	28	Vale, R.D. and Fletterick, R.J., "The Design Plan of Kinesin Motors," <i>Annu. Rev. Cell Dev. Biol.</i> 13:745-777, Annual Reviews, Inc. (1997).
RLi	AT	28	Vale, R.D. and Milligan, R.A., "The Way Things Move: Looking Under the Hood of Molecular Motor Proteins," <i>Science</i> 288:88-95, The American Association for the Advancement of Science (April 2000).

EXAMINER <i>Ruihang Lu</i>	DATE CONSIDERED <i>6/2/04</i>
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLi	AR	29	Van Aelst, L. and D'Souza-Schorey, C., "Rho GTPases and signaling networks," <i>Genes Dev.</i> 11:2295-2322, Cold Spring Harbor Laboratory Press (1997).
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RLi	AT	29	Waddle, J.A. et al., "Transient localized accumulation of actin in <i>Caenorhabditis elegans</i> blastomeres with oriented asymmetric divisions," <i>Development</i> 120:2317-2328, The Company of Biologists Limited (1994).

EXAMINER Ruihong Lu	DATE CONSIDERED 6/2/04
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RLi	AR	30	Watanabe, N. et al., "p140mDia, a mammalian homolog of <i>Drosophila</i> diaphanous, is a target protein for Rho small GTPase and is a ligand for profilin," <i>EMBO J.</i> 16:3044-3056, Oxford University Press (1997).
RLi	AS	30	Wheatley, S.P. and Wang, Y.-l., "Midzone Microtubule Bundles Are Continuously Required for Cytokinesis in Cultured Epithelial Cells," <i>J. Cell Biol.</i> 135:981-989, The Rockefeller University Press (1996).
RLi	AT	30	Wilson, I.A. et al., "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37:767-778, The Massachusetts Institute of Technology (1984).

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Rundberg L

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RLi	AR	31	Winnacker, E.-L., "Directed Mutagenesis," in <i>From Genes to Clones: Introduction to Gene Technology</i> , Winnacker, E.-L., ed., VCH Verlagsgesellschaft mbH, Weinheim, Germany, pp. 451-481 (1987).
RLi	AS	31	Woollard, A. and Hodgkin, J., "Stu-71air-2 is a <i>C. elegans</i> aurora homologue essential for chromosome segregation during embryonic and post-embryonic development," <i>Mech. Dev.</i> 82:95-108, Elsevier Science Ireland Ltd. (April 1999).
RLi	AT	31	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. P01121 (entered July 1986).

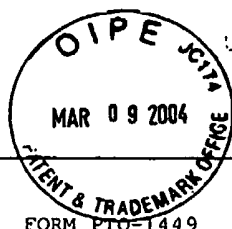
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RLi	AR	32	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. P06749 (entered January 1988).
RLi	AS	32	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. P08134 (entered August 1988).
RLi	AT	32	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. P15153 (entered April 1990).

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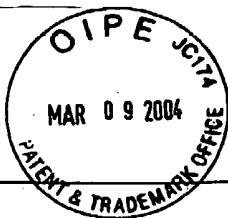
Ruixiang Lu

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RLi	AR	33	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. P15154 (entered April 1990).
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RLi	AT	33	Swiss Institute of Bioinformatics and the European Bioinformatics Institute, SWISS-PROT report, Accession No. 014658 (entered July 1998).

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*Ruthany Lu*

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RLi	AR	34	NCBI Entrez, GenBank Report, Accession No. X67155, Nislow, C. et al. (January 2000).
RLi	AS	34	NCBI Entrez, GenBank Report, Accession No. U61955, The C. elegans Sequencing Consortium (September 2001).
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Rui Xiang Li

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